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AMENDMENTS TO THE CLAIMS

Please add or amend the claims to read as follows, and cancel without prejudice or disclaimer to resubmission in a divisional or continuation application claims indicated as cancelled:

1. **(Currently amended)** A method for compensating for critical dimension (CD) variations of pattern lines of a wafer, by correcting the CD of a corresponding photomask used in manufacturing the pattern lines on the wafer, the photomask comprising a transparent substrate having two substantially opposite surfaces, a first back surface and a second front surface on which front surface an absorbing coating is provided, on which the pattern lines were formed by removing the coating at the pattern lines, the method comprising:

mapping CD variations across regions of a wafer exposure field relating to the photomask; and

using laser radiation providing Shading Elements within the substrate of the photomask in regions which correlate to regions of the wafer exposure field where CD variations greater than a predetermined target value were determined, the shading elements forming correction patterns across the correlating regions;

~~whereby~~ thereby having the shading elements attenuate light passing through the regions, so as to compensate for the CD variations.

2. (Previously presented) The method of claim 1, wherein the step of providing shading elements comprises employing pulsed laser.

3. (Original) The method of claim 2, wherein the pulsed laser comprises ultra-short femtosecond pulsed laser.

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4. (Previously presented) The method of claim 1, wherein the step of providing shading elements is carried out by irradiating pulsed laser radiation through the back surface into the photomask and substantially opposite pattern lines.
5. (Original) The method of claim 1, wherein the at least some of the shading elements comprise Diffractive Optical elements.
6. (Original) The method of claim 1, wherein the shading elements are inscribed within the substrate by directing laser energy through the back surface.
7. (Previously presented) The method of claim 1, wherein parameters for the shading elements are determined using a reference calibration list of parameters for shading elements and their relative attenuation power.
8. (Original) The method of claim 1, wherein the shading elements are designed to cause attenuation of up to about 15%.
9. (Previously presented) The method of claim 3, wherein the ultra-short femto-second pulsed laser is operable at a fast repetition rate of more than one KHz, preferably at above 10 KHz.
10. (Original) The method of claim 1, further comprising using a computer program to calculate information on location, size and design parameters of the shading elements and use the information to operate a pulsed laser source to inscribe the shading elements within the photomask.

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11. (Original) The method of claim 10, wherein the computer program uses a reference calibration list to determine the parameters of the shading elements.
12. (Previously presented) The method of claim 3, wherein the ultra-short femto-second pulsed laser is operable at a fast repetition rate of more than 10 KHz.
13. (New) The method of claim 1, wherein the shading elements include arrays of pixels, each array extending across one of the regions.